

Transformations of Quadratics $y = (x - h)^2$

Date: _____

EX: Sketch the graphs of the functions on the same axis:

A. $y = x^2$

B. $y = (x - 4)^2$

C. $y = (x + 3)^2$

In general for $y = (x - h)^2$:

If there is $(x + h)$, the vertex is translated horizontally left h units.

If there is $(x - h)$, the vertex is translated horizontally right h units.

EX: Sketch graphs without using a table of values for:

A. $y = 2(x - 3)^2$

B. $y = -3(x + 2)^2$